ZyXEL

TOTAL INTERNET ACCESS SOLUTION

Prestige 100WH

Internet Access Router

Quick Start Guide

Prestige 100WH

Internet Access Router

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Chapter 1
Before You Begin

1.1 Purpose Of This Guide

This guide provides instructions on how to setup your new *Prestige* and Windows 95/NT workstations for Internet access using the *Prestige* Web Configurator (PWC).

The *Prestige* Web Configurator provides a quick, simple, and intuitive way to configure your *Prestige*. Using a "point-and-click" Web-based Graphical User Interface (GUI), you can configure, save, monitor, and diagnose your *Prestige* from any workstation on your LAN.

1.2 Who Should Not Use This Guide:

If the intended application for your *Prestige* is other than Internet access for Window 95 or NT workstations, then this guide is not for you. Please refer to the *Prestige* User's Guide for details on other applications.

1.3 Information From Your ISP

Your Internet Service Provider (ISP) should provide information needed to setup your *Prestige*, usually in the form of an account configuration sheet. The information includes:

- User name and password
- ISP's access phone number.
- IP address of ISP's DNS (Domain Name System) server(s).
- Will the ISP be providing you with a static IP address?
  - If yes, what is the range of IP address and subnet mask dedicated to your account?
- Does the ISP support Multi-Link PPP (MP)?

If your Internet access is not through a commercial ISP, e.g., your corporate dial-in server, please consult with your network administrator for the above information.

1.4 Prestige's Default TCP/IP Settings

1.4.1 IP Address and Subnet Mask

Your *Prestige* is pre-configured in the factory with IP Address of 192.168.1.1 and subnet mask of 255.255.255.0 (Class C).

1.4.2 DHCP Setting

Your *Prestige* has a built-in DHCP (Dynamic Host Configuration Protocol) server. DHCP allows the individual workstations on a network to obtain their TCP/IP configuration at start-up from a centralized DHCP server (in this case, the *Prestige*).

The *Prestige*'s DHCP server is enabled by default. The server has a pool of 32 IP addresses ranging from 192.168.1.33 to 192.168.1.64. To minimize your workload, we recommend that you leave the DHCP server enabled, unless you already have another DHCP server running or other specific reasons.

Chapter 2
Cabling & Installation

The following diagrams depict the cabling for the *Prestige*. After you have completed the cabling, proceed to *Chapter 3: Windows 95 Quick Start* or *Chapter 4: Windows NT Quick Start*.

2.1 Prestige 100WH Front Panel

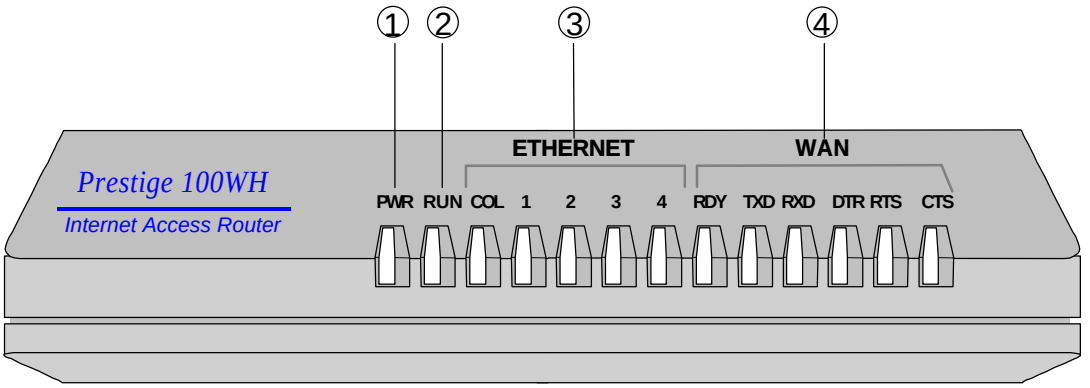
2.1.1 Front Panel Description

① : PWR = Power LED

② : RUN = Operational Status LED (Blinking)

③ : ETHERNET (COL, 1, 2, 3, 4) = 4-port 10Base-T Hub (Collisions on LAN, Active Ethernet Port #)

④ : WAN (RDY, TXD, RXD, DTR, RTS, CTS) = WAN Port (Ready, Transmit, Receive, DTE Ready, Request to Send, Clear to Send)



2.1.2 Front Panel LEDS

The LED indicator lights on the front panel indicate the operational status of your *Prestige*. The following table describes the LED functions:

LED		Function	Indicator Status	Active	Description
PWR		Power LED	Green	On	Power is being applied to the *Prestige*.
RUN		Operational Status LED	Green	Blinking	The *Prestige* is functioning properly.
ETHER-NET	COL	Collisions	Green	On	Transmission collisions have occurred on the LAN.
	1,2,3,4	Link status & Activity	Green	On	An active station is connected to the port.
				Blinking	The station connected to the port is transmitting.
WAN Port	RDY	Ready	Green	On	The WAN port is ready.
	CD	Carrier Detect	Green	On	The connection is ready for data transfer.
	TXD	Transmit	Green	Blinking	Traffic is being transmitted from the *Prestige*.
	RXD	Receive	Green	Blinking	Traffic is being received from the WAN device.
	RTS	Request to Send	Green	On	The *Prestige* is ready to receive data.
	CTS	Clear to Send	Green	On	The WAN device is ready to receive data.

2.1.3 WAN Port Status LEDs

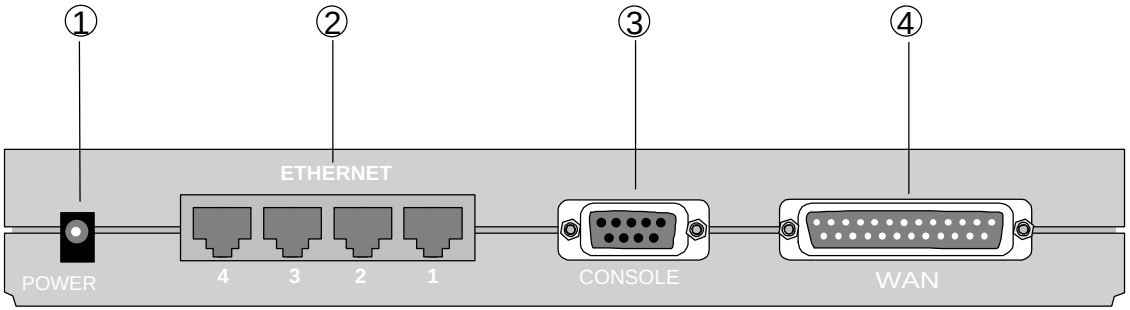
CD (Carrier Detect) signal is sent by the WAN device to indicate that line negotiation is successful and that it is ready for data transfer.

RTS (Request to Send) and CTS (Clear to Send) are hardware flow control signals. RTS is from the DTE (the *Prestige*) while CTS is from the DCE (the WAN device).

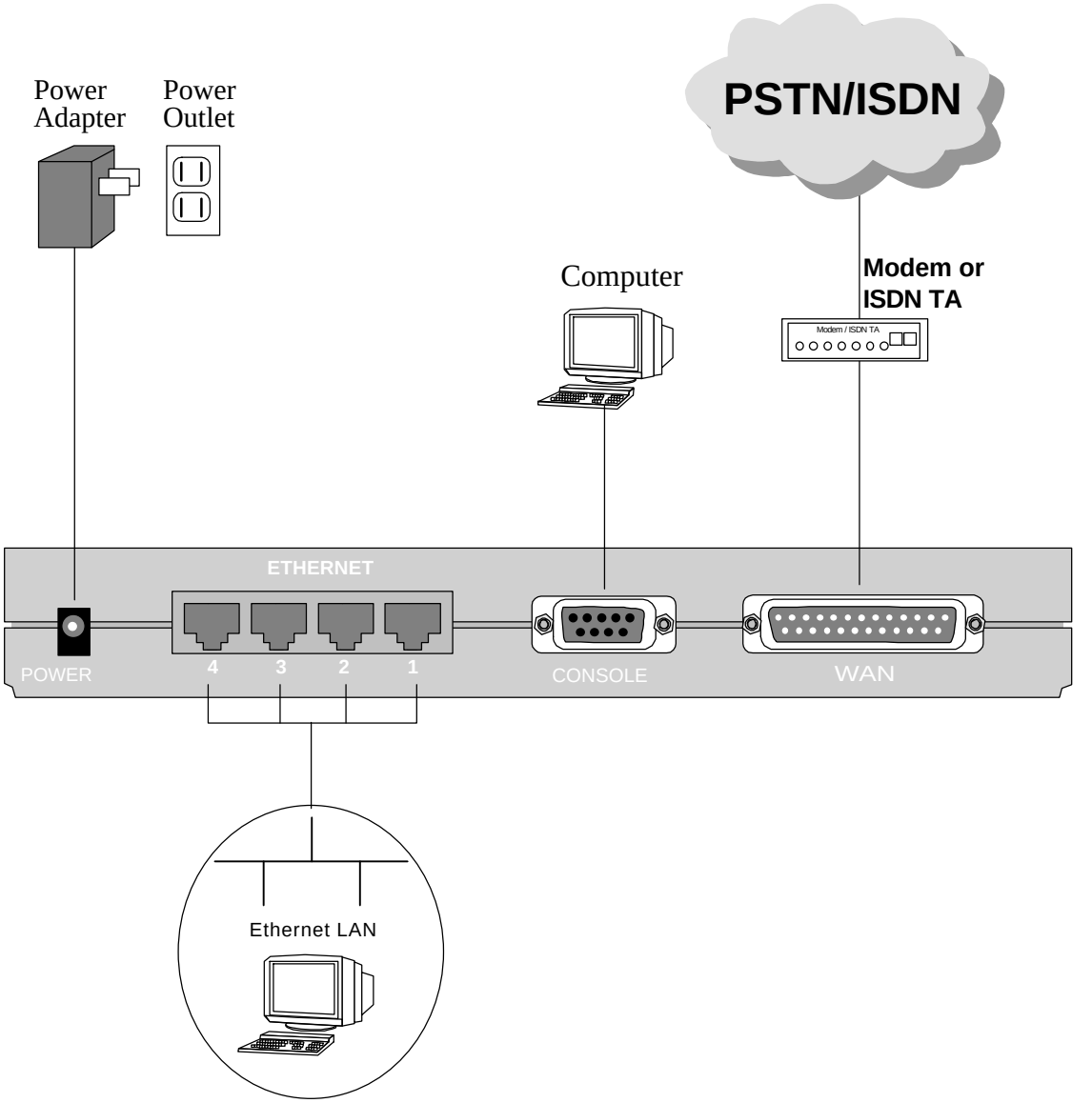
2.2 Prestige 100WH Back Panel

The following figure helps you identify the rear panel ports of your *Prestige 100WH*. Refer to this diagram when making connections.

① : POWER = Input power connector to the AC adapter.
② : ETHERNET = 4 x RJ-45 Ethernet 10Base-T ports.
③ : CONSOLE = DB-9 (female) Console port.
④ : WAN = DB-25 (male) WAN port.



2.3 Prestige 100WH Connections



Chapter 3
Windows 95 Quick Start

This chapter shows you the step-by-step instructions to configure your Windows 95 workstations for Internet access.

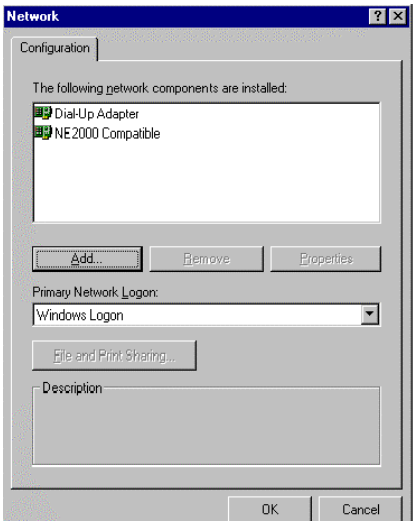
3.1 TCP/IP Installation

You must first install TCP/IP protocol on each Windows 95 workstation before you can use it to access the Internet. If you have already installed TCP/IP, skip to the *TCP/IP Configuration* section on page 9; otherwise, follow these steps:

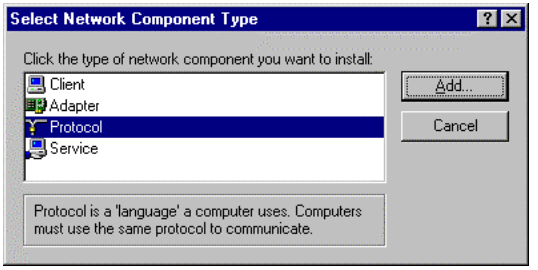
Step 1. From the ***Start Menu***, select ***Settings*** then open ***Control Panel***.

Step 2. Double-click the ***Network*** icon to open the ***Network*** control panel.

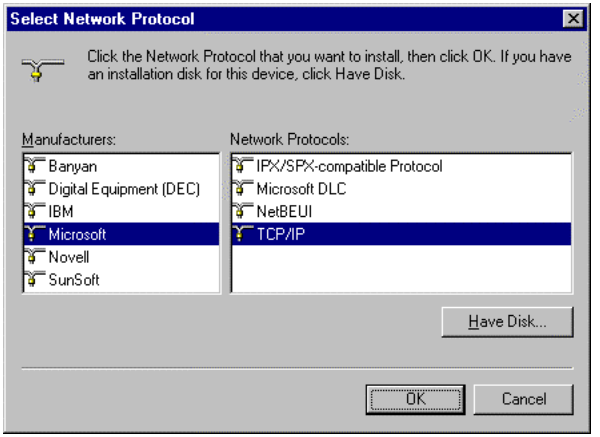
Step 3. Click the ***Add*** button in the ***Network*** control panel to add a new protocol.



Step 4. Select the ***Protocol*** item and click ***Add***.



Step 5. Choose ***Microsoft*** from the ***Manufacturers***, and ***TCP/IP*** from the ***Network Protocols***. Then click ***OK***.



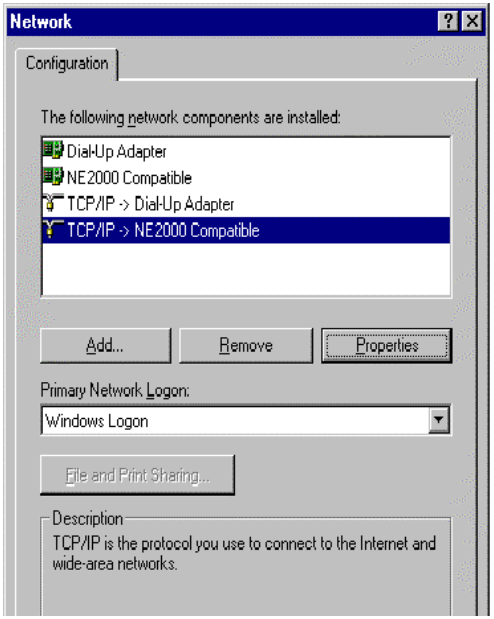
This will install the TCP/IP protocol on your workstation.

3.2 TCP/IP Configuration

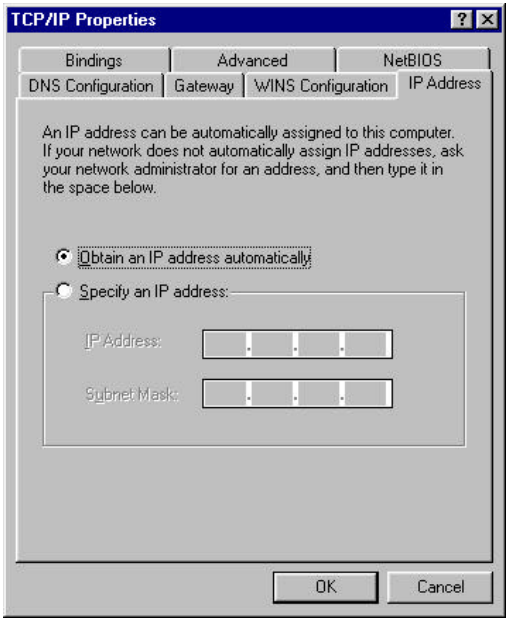
Follow these steps to configure your TCP/IP for Windows 95.

Step 1. From the ***Start Menu***, select ***Settings*** then open ***Control Panel***.

Step 2. Double-click the ***Network*** icon to open the ***Network*** control panel. A list of installed components is displayed. Click on ***TCP/IP*** selection for the installed network card to highlight as shown below, then click the ***Properties*** button.



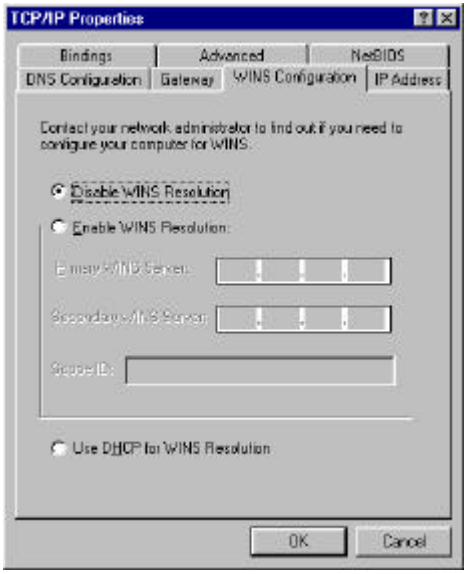
Step 3. The ***TCP/IP Properties*** dialog with ***IP Address*** tab will appear as shown below.


TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:
Subnet Mask:
OK
Cancel

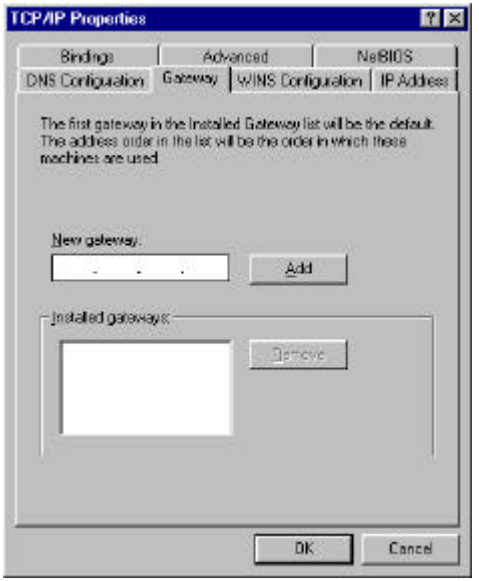
Step 4. Select ***Obtain an IP address automatically*** if your ISP did not assign you a block of registered IP addresses (most cases); otherwise, select ***Specify an IP address*** and enter the IP address and subnet mask for this workstation from the block provided by your ISP.

Note: *Do not assign arbitrary IP address and subnet mask to your workstations. Otherwise, you will not be able to access the Internet.*

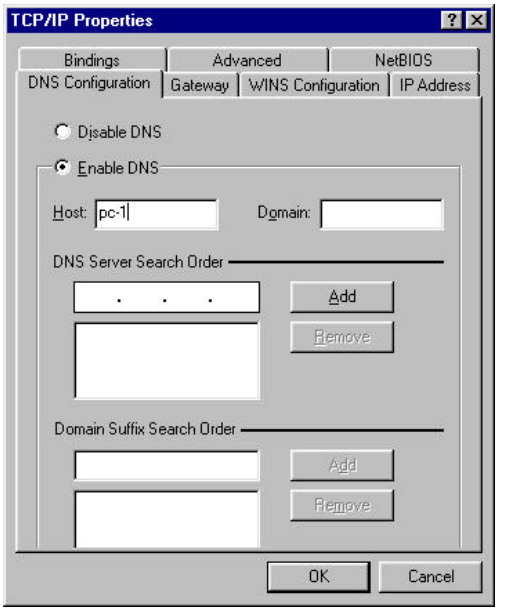
Step 5. Select the ***WINS Configuration*** tab, and click ***Disable WINS Resolution***.



Step 6. On the ***Gateway*** tab, highlight any installed gateways and click the ***Remove*** button until there are none listed.



Step 7. On the ***DNS Configuration*** tab, select ***Enable DNS***. Enter a unique name for the workstation in the ***Host*** box. Enter your domain name in the ***Domain*** box if you have one. This field is optional and can be left blank. Leave the ***DNS Server Search Order*** box blank if you plan to get the DNS server address(es) from a DHCP server. Otherwise enter the DNS server address of your ISP in the third box and click **Add**. Click ***OK*** to save and close ***TCP/IP*** dialog.



Step 8. Now Click ***OK*** to close the ***Network*** control panel. You may be prompted to insert your Windows 95 CD or disks. When the drivers are updated, you may be prompted to restart the system. Make sure the *Prestige* is powered on before clicking ***yes*** and allow the workstation to restart.

Step 9. After your workstation restarts, choose ***RUN…*** from the Start Menu. Then type ***"winipcfg"*** and click ***OK***. This command will show the TCP/IP configuration of your workstation. If no address is shown, verify your cabling.

Repeat the above steps for each Windows 95 workstation on your LAN.

Chapter 4
Windows NT Quick Start

This chapter shows you the step-by-step instructions to configure your Windows NT workstations for Internet access.

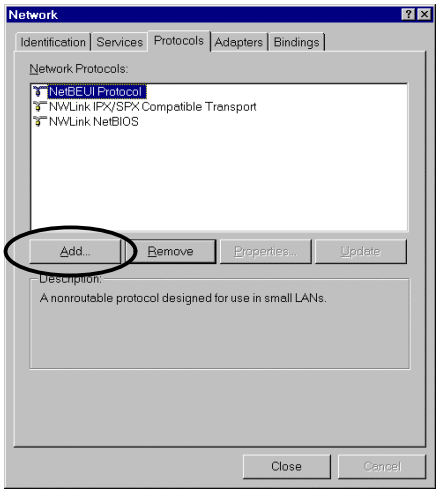
4.1 TCP/IP Installation

You must first install TCP/IP protocol on each Windows NT workstation before you can use it to access the Internet. If you have already installed TCP/IP, skip to the *TCP/IP Configuration* section on page 15; otherwise, follow these steps:

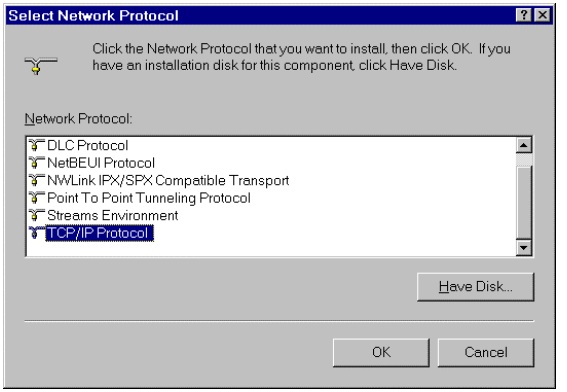
Step 1. From the ***Start Menu***, select ***Settings*** then open ***Control Panel***.

Step 2. Double-click the ***Network*** icon to open the ***Network*** control panel.

Step 3. Select the ***Protocols*** tab, then click the ***Add…*** button.



Step 4. Choose ***TCP/IP Protocol*** from the ***Network Protocol*** list. Then click ***OK***.


Select Network Protocol
Click the Network Protocol that you want to install, then click OK. If you have an installation disk for this component, click Have Disk.
Network Protocol:
DLC Protocol
NetBEUI Protocol
NWLink IPX/SPX Compatible Transport
Point To Point Tunneling Protocol
Streams Environment
TCP/IP Protocol
Have Disk...
OK
Cancel

This will install the TCP/IP protocol on you workstation.

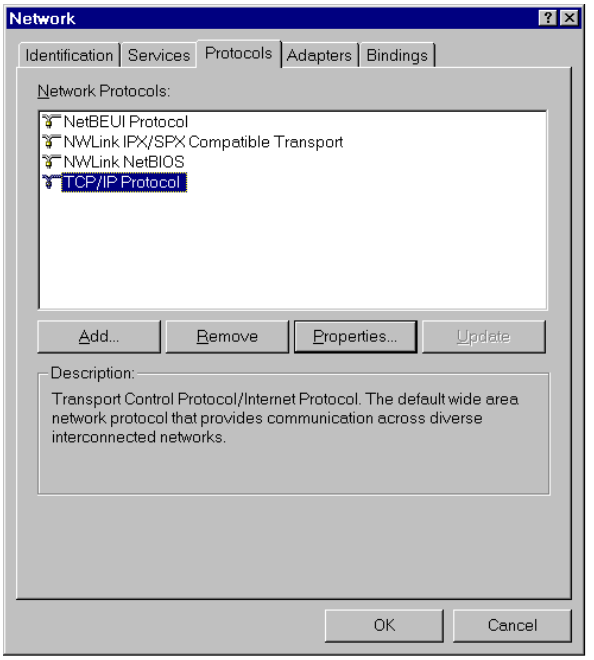
4.2 TCP/IP Configuration

Follow these steps to setup your TCP/IP configuration for Windows NT.

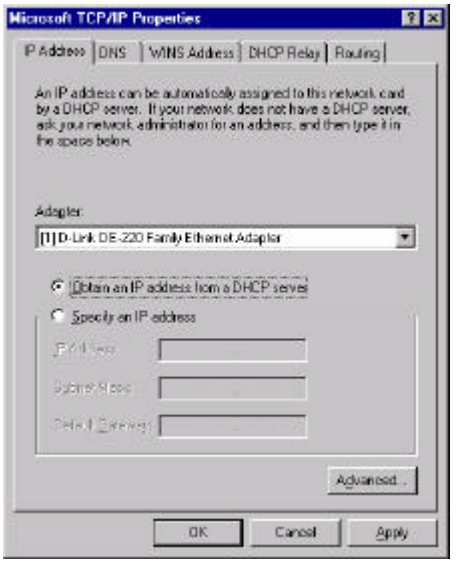
Step 1. From the ***Start Menu***, select ***Settings*** then open ***Control Panel***.

Step 2. Double-click the ***Network*** icon to open the ***Network*** control panel.

Step 3. Click the ***Protocols*** tab, select the ***TCP/IP protocol***, and click the ***Properties…*** button to open the ***Microsoft TCP/IP Properties*** dialog.

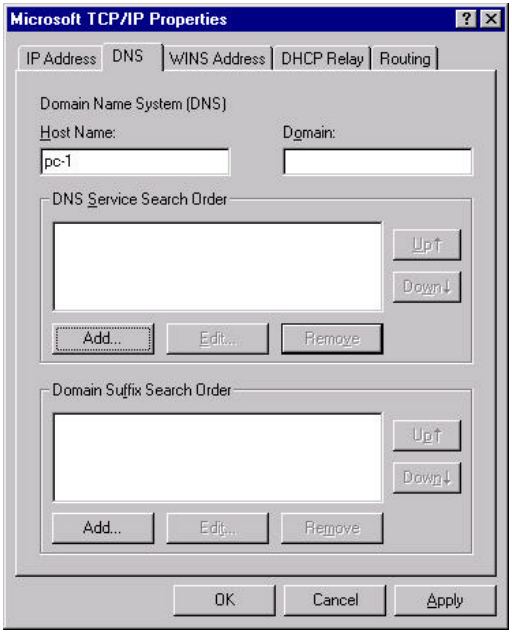


Step 4. Select ***Obtain an IP address automatically*** if your ISP did not assign you a block of registered IP addresses (most cases). Otherwise, select ***Specify an IP address*** and enter the IP address and subnet mask for this workstation from the block provided by your ISP, and enter your *Prestige*'s IP address in ***Default Gateway***.

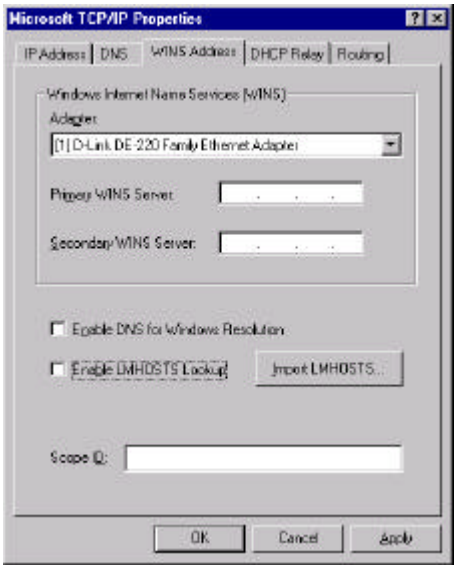

Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
DHCP Relay
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
[1] D-Link DE-220 Family Ethernet Adapter
Obtain an IP address from a DHCP server
Specify an IP address
Advanced...
OK
Cancel
Apply

Note: *Do not assign arbitrary IP address and subnet mask to your workstations. Otherwise, you will not be able to access the Internet.*

Step 5. On the ***DNS*** tab, Enter a unique name for the workstation in the ***Host Name*** box. Enter your domain name in the ***Domain*** box if you have one. This field is optional and can be left blank. Make sure the ***DNS Service Search Order*** box is blank if you plan to get the DNS server address(es) from a DHCP server. Otherwise click ***"Add..."*** to enter the DNS server address(es) of your ISP.



Step 6. On the ***WINS Address*** tab, make sure the toggle button of ***Enable DNS for Windows resolution*** is not checked.



Step 7. Click on the ***OK*** button at the bottom to save and close the ***TCP/IP Properties*** dialog.

Step 8. Click on the ***OK*** button to save and close the ***Network*** control panel.

Repeat the above steps for each Windows NT workstation on your LAN.

Chapter 5

Prestige Web Configurator Setup

The *Prestige* Web Configurator (PWC) is a JAVA-based program that provides a quick, simple, and intuitive way to configure your *Prestige*. Using a "point-and-click" Web-based Graphical User Interface (GUI), you can configure, monitor, and diagnose your *Prestige* from any workstation on your LAN.

The PWC system consists of three components:

1. A browser, either Microsoft's Internet Explorer 3.02 and above, or Netscape Navigator 3.0 and above.

2. Sum Microsystems's JAVA Activator EA2 release or later.

3. The *Prestige* Web Configurator software.

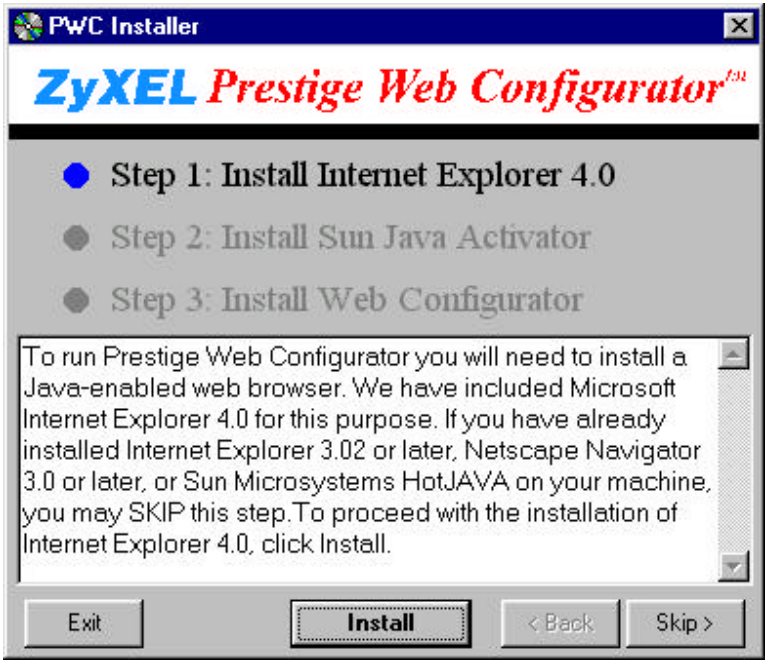
All three components must be installed on the workstation for you to run PWC.

5.1 Installing PWC Components

To install the *Prestige* Web Configurator components:

Step 1. Insert the *Prestige* Web Configurator installation CD into your CD-ROM drive.

The ZyXEL CD Installer Program should start automatically after you insert the CD. If it does not, run ***Startup.exe*** located in the CD's root directory.


PWC Installer
ZyXEL Prestige Web Configurator
Step 1: Install Internet Explorer 4.0
Step 2: Install Sun Java Activator
Step 3: Install Web Configurator
To run Prestige Web Configurator you will need to install a Java-enabled web browser. We have included Microsoft Internet Explorer 4.0 for this purpose. If you have already installed Internet Explorer 3.02 or later, Netscape Navigator 3.0 or later, or Sun Microsystems HotJAVA on your machine, you may SKIP this step.To proceed with the installation of Internet Explorer 4.0, click Install.
Exit
Install
< Back
Skip >

Note: *The ZyXEL CD Installer Program (Startup.exe) requires the Microsoft® Visual Basic 5 Runtime libraries.*

On some systems you may get the message "Error Starting Program" when trying to start the CD-ROM Installer. If this should occur, use the Windows Explorer to open the "VB5Run" folder on the CD, then double-click the "Setup" Icon to run Setup.exe.

This program will update your system files, install the VB5 runtime DLLs, and create a "VB5About" shortcut in the Programs folder in the Start menu. This program gives you the information about the system files that setup.exe has installed. You may safely uninstall VB5About with the "Add/Remove Programs" Control Panel after you have completed PWC installation.

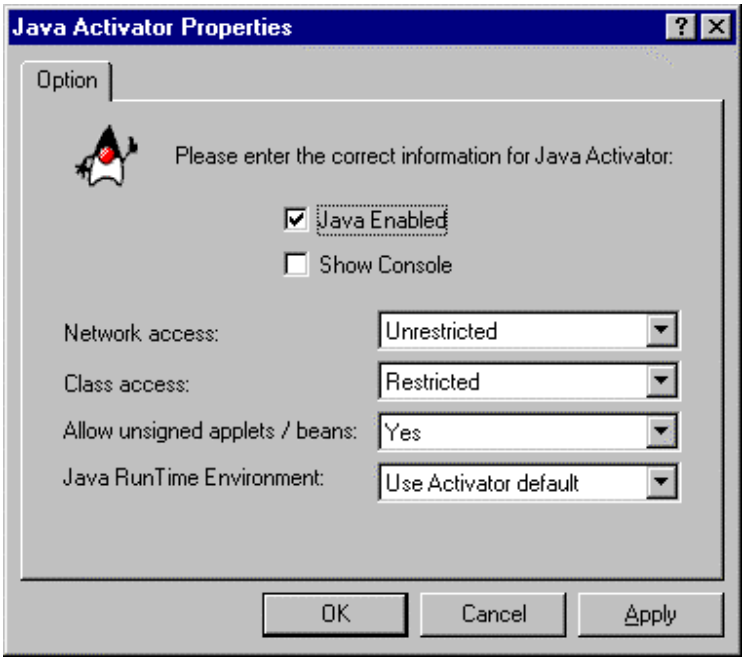
Step 2. Use the ***Skip*** and ***Back*** buttons to select the PWC components that have not been installed. Click the ***Install*** button to install the selected component.

Follow the on-screen instructions for each package.

Step 3. After you install all the required components, click the ***Exit*** button.

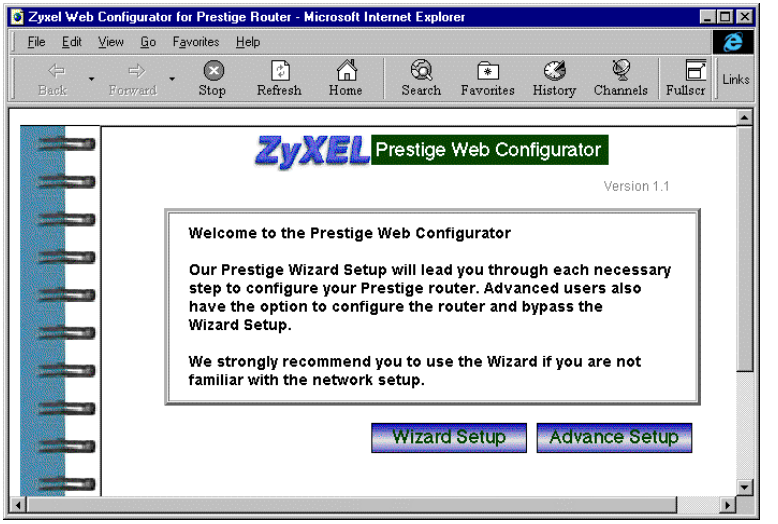
Step 4. Open the JAVA Activator Control Panel located in the JAVA Activator 1.1 EA2 folder of your Start/Programs group.

Step 5. Make sure the settings match those in the following figure and click ***OK***.



5.2 Starting the Prestige Web Configurator

Step 1. To start PWC, select Start→ Programs→ ZyXEL→ *Prestige* Web Configurator. Your web browser will start and show PWC's welcome page.


Zyxel Web Configurator for Prestige Router - Microsoft Internet Explorer
File Edit View Go Favorites Help
Back Forward Stop Refresh Home Search Favorites History Channels Fullscr Links
ZyXEL Prestige Web Configurator
Version 1.1
Welcome to the Prestige Web Configurator
Our Prestige Wizard Setup will lead you through each necessary step to configure your Prestige router. Advanced users also have the option to configure the router and bypass the Wizard Setup.
We strongly recommend you to use the Wizard if you are not familiar with the network setup.
Wizard Setup
Advance Setup

Step 2. Click the ***Wizard Setup*** button at the bottom of the welcome screen to start the Wizard Setup.

The **Wizard Setup** guides you through the steps necessary to configure your *Prestige* for Internet access. If this is your first experience with a *Prestige*, you should begin with the Wizard Setup.

The Wizard Setup is designed to be straight-forward and includes detailed on-screen information every step of the way. You should have no problems completing your *Prestige* setup by following the on-screen directions. Should you have any difficulties, detailed information on the Wizard Setup is available in "*Prestige Web Configurator* User's Guide".

Customer Support
ZyXEL Prestige 100WH

If you have questions about your ZyXEL products or desire assistance, contact ZyXEL Communications Corporation in one of the following ways.

Contacting ZyXEL

E-mail	Technical Support	Support@zyxel.com in North America Support@zyxel.com.tw outside of the US.
E-mail	Sales	Sales@zyxel.com in North america Sales@zyxel.com.tw outside of the US.
Web Site	Product Information	www.zyxel.com ZyXEL's Internet Site.
Phone	North America	(714) 693-0808 (8:00 to 5:00 PM PST)
	Outside North America	+886-3-5782439 Ext.:266 (8:00 to 5:00 PM local)
Fax	North America	(714) 693-8811
	Outside North America	+886-3-5782439
FTP File Downloads	North America	ftp.zyxel.com (Software and ROM upgrades)
	Europe	ftp.zyxel.co.at (Software and ROM upgrades)

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TOTAL INTERNET ACCESS SOLUTION